



STATE OF WASHINGTON

STATE BUILDING CODE COUNCIL

2024 Washington State Energy Code Development Energy Code Proposal Short Form

For editorial **Coordination, Clarifications & Corrections** only,
without substantive energy or cost impacts

Log No. 24-GP1-295

Proponent Revision Rec'd 3/26/25

Code being amended: [Commercial](#) Provisions [Residential](#) Provisions
(A MS Word version of the code is linked to the name)

Code Section # **TABLE C402.1.2 and TABLE C402.1.3**

Brief Description:

This proposal moves the prescriptive R-value requirements for steel joist floors over unconditioned spaces per Table C402.1.3 Footnote “e” into the body of Table C402.1.3.

For the maximum allowed U-factor in the 2024 WSEC-C Table C402.1.2, a single value of U-0.029 is applied to “Joist/framing” floors and the code does not define material type.

The minimum required R-value in Table C402.1.3 for Joist/framing is R-30. Per ASHRAE 90.1-2022 for a wood-framed joist floor this equates to U-0.033.

Per Table C402.1.3 Footnote “e”, the prescriptive R-value requirements for a steel-joist floor assembly is R-38 cavity insulation and R-10 continuous insulation. Per ASHRAE 90.1-2022 Table A5.3.3.1 this equates to a U-factor of U-0.024.

This proposal recommends revising the maximum allowed U-factor for all joist/framing floors to U-0.026 to align more closely with the steel-joist floor assembly defined in Footnote e and increases the minimum R-value requirement for a wood-joist floor assembly to R-38, which equates to U-0.026.

Proposed code change text: (Copy the existing text from the Integrated Draft, linked above, and then use underline for new text and ~~strikeout~~ for text to be deleted.)

**TABLE C402.1.2
OPAQUE BUILDING THERMAL ENVELOPE ASSEMBLY
MAXIMUM REQUIREMENTS, U-FACTOR METHOD^{a, f}**

	CLIMATE ZONE 5 AND MARINE 4	
	All Other	Group R
Floors		
Mass ^e	U-0.031	U-0.031
Joist /framing	<u>U-0.029</u> <u>U-0.026</u>	<u>U-0.029</u> <u>U-0.026</u>

Instructions: For use with Coordination, Clarifications & Corrections **ONLY**. Send this form as an email attachment, along with any other documentation available, to: sbcc@ga.wa.gov. For further information, call the State Building Code Council at 360-407-9277.